CLAIMS

1. An apparatus for registering a mobile node operating in a visited network, 2 comprising: a memory element; and 4 a processor configured to execute a set of instructions stored within the memory element, the set of instructions for: 6 performing an initial registration with a foreign agent in the visited network: 8 if an IP packet is transferred within a predetermined time period, then following a standard protocol; 10 if an IP packet is note transferred within the predetermined time period, then refraining from performing a re-registration with the foreign 12 agent, wherein refraining from performing the re-registration is contrary to the standard protocol; and 14 if an IP packet is transferred after the predetermined time period expires and before the registration lifetime expires, then 16 transmitting a re-registration request. 2. An apparatus for re-registering a mobile node with a foreign agent, 2 comprising: a memory element; and 4 a processor configured to execute a set of instructions stored within the memory element, the set of instructions for: 6 performing a registration with the foreign agent wherein a registration lifetime is set; 8 refraining from performing a re-registration if a pre-determined period, which is less than the registration lifetime, has expired and no 10 packet has been transmitted or received at the mobile node; and

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set;

performing a re-registration only if a packet is transmitted or received after a successful registration and before the expiration of the registration lifetime

3. An apparatus for registering a mobile node operating in a visited network,2 comprising:

registration means for performing an initial registration and subsequent re-registrations of the mobile node with a foreign agent in the visited network; and

timing means for use with the registration means, wherein the registration means uses the timing means to determine whether to follow a standard protocol or to disregard the standard protocol, wherein disregarding the standard protocol is to refrain from performing the re-registration of the mobile node.

4. A method for re-registering a mobile node with a foreign agent, comprising:

performing an initial registration with a foreign agent in the visited network;

if an IP packet is transferred between the mobile node and the foreign agent within a predetermined time period, then following a standard protocol;

if an IP packet is not transferred within the predetermined time period, then refraining from performing a re-registration with the foreign agent, wherein refraining from performing the re-registration is contrary to the standard protocol; and

if an IP packet is transferred after the predetermined time period and before the expiration of a registration lifetime, then transmitting a re-registration request.

5. A method for minimizing the impact of registration requests from a2 travelling mobile node, comprising:

performing initial registration with the foreign agent wherein a lifetime is

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refraining from performing a re-registration if a pre-determined period, which is less than the registration lifetime, has expired and no packet has been transmitted or received; and

performing a re-registration only if a packet is transmitted or received after the expiration of the pre-determined period and before the expiration of the registration lifetime.